

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR NOVEMBER 1944

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[Communicated by Commodore J. F. Hellweg, U. S. N. (Ret.) Superintendent, U. S. Naval Observatory.] All measurements and spot counts were made at the Naval Observatory from plates taken at the observatories indicated. Difference in longitude is measured from the central meridian, positive toward the west. Latitude is positive toward the north. Areas are corrected for foreshortening and expressed in millions of Sun's hemisphere. For each day, under longitude, latitude, area of spot or group, and spot count are included assumed longitude of center of the disk, assumed latitude of center of the disk, total areas of spots and groups and total spot count.

Date	Eastern standard time	Mount Wilson group No.	Heliographic			Area of spot or group	Spot count	Plate quality	Observatory
			Difference in longitude	Longitude	Latitude				
Nov. 1 1944	10 38	7684	° -37	224	-6	40	48	15	G U. S. Naval.
		7684	-35	226	-7	37	12	1	
		7684	-33	228	-7	35	48	5	
			(261)	(+4)		108	21		
2	11 54	7684	-23	224	-6	26	61	10	G Do.
		7684	-19	228	-6	23	36	2	
		7684	-17	230	-7	22	61	7	
		7684	-12	235	-5	15	48	4	
			(247)	(+4)		206	23		
3	11 40	7684	-9	225	-6	13	36	3	G Do.
		7684	-5	229	-9	13	12	5	
		7684	-3	231	-7	11	48	4	
		7684	+1	235	-5	9	6	1	
			(234)	(+4)		102	13		
4	11 51	7685	-79	141	+21	79	6	1	G Do.
		7684	+5	225	-7	12	24	2	
		7684	+11	231	-9	17	24	5	
		7684	+11	231	-6	15	12	2	
		7684	+16	236	-5	18	16	1	
			(220)	(+4)		82	11		
5	11 23	7685	-67	140	+21	67	6	1	F Do.
			(207)	(+4)		6	1		
6	10 43	7685	-52	143	+21	53	12	2	G Mt. Wilson.
			(195)	(+4)		12	2		
7	14 28		No spots						Do.†
8	11 25		No spots						Do.†
9	10 52		No spots						Do.†
10	11 38	(*)	-53	88	-5	54	24	3	F U. S. Naval.
			(141)	(+3)		24	3		
11	9 56	7686	-48	81	-16	52	61	2	F Do.
			(129)	(+3)		61	2		
12	11 5	7687	-77	38	-26	78	36	1	F Do.
		7686	-35	80	-17	40	12	1	
		7686	-33	82	-17	39	6	2	
			(115)	(+3)		54	4		
13	11 17	7687	-62	40	-26	67	24	1	F Do.
		7686	-21	81	-17	28	6	1	
			(102)	(+3)		30	2		
14	10 40	7687	-48	41	-25	54	12	1	F Do.
			(89)	(+3)		12	1		
15	11 36	7688	-87	349	+21	87	388	1	G Do.
		7687	-35	41	-23	42	24	3	
			(76)	(+3)		412	4		
16	12 38	7688	-72	350	+21	72	388	1	G Do.
			(62)	(+3)		388	1		
17	12 21	7688	-59	350	+21	60	388	1	Mt. Wilson.
			(49)	(+3)		388	1		
18	11 44	7688	-50	346	+21	53	24	8	G U. S. Naval.
		7688	-48	350	+21	48	388	1	
			(36)	(+2)		412	9		
19	11 31	7688	-36	347	+22	40	36	5	F Mt. Wilson.
		7688	-32	351	+21	36	436	1	
			(23)	(+2)		472	6		
20	11 31	7688	-19	351	+21	27	436	1	G Do.
			(10)	(+2)		436	1		
21	10 39	7688	-6	351	+21	20	436	1	F U. S. Naval.

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR NOVEMBER 1944—Continued

Date	Eastern standard time	Mount Wilson group No.	Heliographic					Distance from center of disk	Area of spot or group	Spot count	Plate quality	Observatory
			Difference in longitude	Longitude	Latitude	Distance from center of disk						
Nov. 22 1944	10 26	7689	-27	317	-19	33	24	1	F	U. S. Naval.		
		7689	-24	320	-19	32	24	4				
		7689	+4	348	+24	23	6	3				
		7688	+8	352	+21	21	436	1				
						(344)	(+2)	490	9			
23	10 55	7689	-16	314	-21	27	12	2	F	Do.		
		7689	-12	318	-20	25	24	1				
		7689	-8	322	-20	22	24	1				
		7688	+20	350	+21	28	436	1				
						(330)	(+2)	496	5			
24	10 54	7689	-2	315	-21	23	36	7	G	Do.		
		7689	+1	318	-20	22	61	10				
		7688	+33	350	+21	38	461	1				
						(317)	(+2)	558	18			
25	10 35	7689	+12	316	-22	27	48	4	F	Do.		
		7689	+15	319	-21	28	24	1				
		7688	+46	350	+20	48	436	1				
						(304)	(+2)	508	6			
26	12 52	7688	+60	350	+20	61	412	1	F	Do.		
			(290)	(+1)		412	1					
27	11 35	7690	-12	285	+19	20	6	1	G	Mt. Wilson.		
		7690	-9	268	+19	19	36	6				
		7688	+74	351	+20	75	388	1				
						(277)	(+1)	430	8			
28	10 37	7690	0	265	+17	16	8	3	F	U. S. Naval.		
		7690	+3	268	+21	20	6	3				
		7690	+5	270	+19	18	24	2				
		7688	+84	349	+20	84	388	1				
						(265)	(+1)	426	9			
29	10 53	7690	+14	285	+19	22	12	2	G	Mt. Wilson.		
		7690	+17	268	+19	23	24	10				
						(251)	(+1)	36	12			
30	10 32	7691	-20	218	-8	22	12	6	F	U. S. Naval.		
		7690	+27	265	+17	32	6	1				
						(238)	(+1)	18	7			

Mean daily area for 30 days = 234

† Data from Mount Wilson charts.

(*) Not numbered.

VG=very good; G=good; F=fair; P=poor.

PROVISIONAL RELATIVE SUNSPOT NUMBERS FOR SEPTEMBER 1944

September 1944	Relative numbers	September 1944	Relative numbers	September 1944	Relative numbers
1	0	11	14	21	21
2	Wc 21	12	22	22	22
3	8	13	25	23	20
4	8	14	* 22	24	a 23
5	0	15	a 20	25	* 23
6	0	16	14	26	21
7	0	17	12	27	18
8	0	18	12	28	11
9	*d 9	19	14	29	9
10	11	20	Ec 20	30	Mc 28

Mean, 30 days = 14.3

* = Observed at Locarno.

a = Passage of an average sized group through the central meridian.

b = Passage of a large group through the central meridian.

c = New formation of a group developing into a middle sized or large center of activity; E, on the eastern part of the Sun's disc; W, on the western part; M, in the central circle zone.

d = Entrance of a large or average sized center of activity on the east limb.